

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1. (Currently amended): A microwave or radiofrequency device comprising an applicator ~~(1, 111)~~ designed to house an object ~~(3, 113)~~ to be treated and several generators supplying power to the applicator via propagation guides, characterized in that three propagation guides ~~(101-103, 201-203, 301-303, 401-403)~~ propagating the microwaves or radiofrequency waves generated respectively by three generators are mounted respectively on three plates ~~(71-73)~~ forming a three-axis orthogonal coordinate system (OX, OY, OZ) and are arranged symmetrically with respect to a ternary axis of symmetry (Δ) of the coordinate system so that the generators supply power to the applicator while being mutually decoupled.

2. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the three propagation guides ~~(101-103, 201-203)~~ are of rectangular cross section and mounted respectively on the three plates so that the short sides ~~(91-93)~~ of their rectangular cross section remain pairwise orthogonal.

3. (Currently amended): The device as claimed in claim 2, ~~characterized in that~~ wherein each propagation guide ~~(101-103)~~ extends along a longitudinal propagation direction ~~(L1-L3)~~ perpendicular to the plate on which it is mounted.

4. (Currently amended): The device as claimed in claim 2, ~~characterized in that~~ wherein each propagation guide ~~(201-203)~~ extends along a longitudinal propagation direction ~~(L1-L3)~~ parallel to the plate on which it is mounted.

5. (Currently amended): The device as claimed in claim 3 ~~or 4, characterized in that~~ , wherein the three propagation guides emerge in the applicator via microwave-transparent windows ~~(41-43)~~ formed at one end of each propagation guide.

6. (Currently amended): The device as claimed in claim 3 ~~or 4, characterized in that~~ , wherein the three propagation guides emerge in the applicator via slots (~~51-53, 51A-53A, 51B-53B~~) formed on one side (~~91-93, 21A-23A, 21B-23B~~) of each propagation guide.

7. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the three propagation guides (~~301-303~~) are coaxial cables that extend along a longitudinal propagation direction (~~L1-L3~~) perpendicular to the plates (~~71-73~~) and emerge in the applicator via a current loop (~~411-413~~).

8. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the three propagation guides (~~401-403~~) are coaxial cables that extend along a longitudinal propagation direction (~~L1-L3~~) perpendicular to the plates (~~71-73~~) and emerge in the applicator via one of their stripped ends (~~81-83~~).

9. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the propagation guides occupy a variable position through a rotation about their longitudinal propagation direction (~~L1-L3, l1-l3~~) and through a translation parallel to the plates (~~71-73~~) on which they are mounted, while preserving the symmetry with respect to the ternary axis of symmetry (Δ) of the coordinate system (OX, OY, OZ) in order to adjust the decoupling of the generators according to the shape of the object (~~3~~) housed in the applicator (~~1~~).

10. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the applicator (~~1~~) is of circular or triangular cross section.

11. (Currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein the applicator is a chemical reactor or a glass furnace (~~111~~).

12. (New): The device as claimed in claim 4, wherein the three propagation guides emerge in the applicator via microwave-transparent windows formed at one end of each propagation guide.

13. (New): The device as claimed in claim 4, wherein the three propagation guides emerge in the applicator via slots formed on one side of each propagation guide.